

Fig. 13

- S21 convert input two text sentences S1 and S2 into R trees Ta and Tb, respectively
- S22 numbers from 1 to positive integer n to roots of all subtrees of the R trees Ta and Tb in depth first order from a root of the R tree
- S23 $x = n_1$ where n_1 denotes number of vertexes of the tree Ta
- S24 $y = n_2$ where n_2 denotes number of vertexes of the tree Tb
- S25 calculate a distance $D(Fa(x), Fb(y))$ between a forest $Fa(x)$ and a forest $Fb(y)$, using formula 6
- S26 calculate a distance $D(Ta(x), Tb(y))$ between the subtree $Ta(x)$ and the subtree $Tb(y)$, using formula 5
- S27 Is y a root of Tb?
- S29 Is x a root of Ta?
- S31 calculate a distance between the text sentences S1 and S2, using formulae 7 or 8